

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101823 142 A
Source: TEWO
Date Processed by STIC: 4-26-05

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IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/823,142A

DATE: 04/26/2005
TIME: 16:36:20

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\04182005\J823142A.raw

3 <110> APPLICANT: AVENTIS PHARMA SA
4 GUILLAUME, Jean-Marc
5 DITTRICH, Werner
6 PEREZ, Sandrine
7 ANDREONI, Christine Michelle Pierrette
8 PAILLOT, Romain
10 <120> TITLE OF INVENTION: METHOD FOR OBTAINING MASTOCYTE LINES FROM PIG TISSUES AND
FOR PRODUCING
11 HEPARIN-TYPE MOLECULES
W--> 12 <130> FILE REFERENCE: FRAV2003/0009 US NP
14 <140> CURRENT APPLICATION NUMBER: 10/823,142A
15 <141> CURRENT FILING DATE: 2004-04-13
17 <150> PRIOR APPLICATION NUMBER: 60/477,962
18 <151> PRIOR FILING DATE: 2003-06-12
20 <150> PRIOR APPLICATION NUMBER: FR 0304671
21 <151> PRIOR FILING DATE: 2003-04-14
23 <160> NUMBER OF SEQ ID NOS: 34
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 3952
29 <212> TYPE: DNA
30 <213> ORGANISM: Sus scrofa
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36 <223> OTHER INFORMATION: n is a, c, g, or t
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41 <223> OTHER INFORMATION: n is a, c, g, or t
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56 agaggcgctc gccgcgcctg ggattttctc ttcgtcctgc agctcttgc tcgcgtccag 180
57 acaggcttt ctcagccatc tggatgtcca gaggaactgt ctccaccatc catccagcca 240
58 gcaaatcag agttaatcgt cagtgcgtgc gatgagatta ggctgttctg caccgatcca 300

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68	ggttaagca	gttccattta	tgtgtttgtt	agagatcctg	agaagcttt	cctcgctgac	480
70	cctcccttgt	atgggaagga	ggacaatgac	gcgctgtcc	gctgtccct	gacgaccca	540
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96	ttaaaaggga	ccgaaggagg	cacttacaca	tttctcggt	ccaatgctg	tgtcaattct	1320
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124	accctggta	ttacagaata	ttgttgcata	ggtgatctcc	tgaattttt	gagacggaaa	2160
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138	acaaagattt	gtgattttgg	tctagccaga	gacatcaaga	atgattctaa	ttacgtgg	2580
140	aaaggaaacg	ctcggttacc	cgtgaagtg	atggcacc	agagcat	caactgtgtc	2640
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168	catctgtaac	aatatgatga	tgatgatgcc	agaaccta	cccttgatgt	ggaaaatagg	3480										
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206					65					70					75		80
208	Glu	Trp	Ile	Val	Glu	Lys	Ala	Glu	Ala	Met	Asn	Thr	Gly	Asn	Tyr	Thr	
209					85					90					95		
211	Cys	Thr	Asn	Glu	Gly	Gly	Leu	Ser	Ser	Ser	Ile	Tyr	Val	Phe	Val	Arg	
212					100					105					110		
214	Asp	Pro	Glu	Lys	Leu	Phe	Leu	Val	Asp	Pro	Pro	Leu	Tyr	Gly	Lys	Glu	
215					115					120					125		
217	Asp	Asn	Asp	Ala	Leu	Val	Arg	Cys	Pro	Leu	Thr	Asp	Pro	Glu	Val	Thr	
218					130					135					140		
220	Asn	Tyr	Ser	Leu	Thr	Gly	Cys	Glu	Gly	Lys	Pro	Leu	Pro	Lys	Asp	Leu	
221					145					150					155		160
223	Thr	Phe	Val	Ala	Asp	Pro	Lys	Ala	Gly	Ile	Thr	Ile	Lys	Asn	Val	Lys	
224					165					170					175		
226	Arg	Glu	Tyr	His	Arg	Leu	Cys	Leu	His	Cys	Ser	Ala	Asn	Gln	Gly	Gly	
227					180					185					190		
229	Lys	Ser	Val	Leu	Ser	Lys	Lys	Phe	Thr	Leu	Lys	Val	Arg	Ala	Ala	Ile	
230					195					200					205		
232	Arg	Ala	Val	Pro	Val	Val	Ala	Val	Ser	Lys	Ala	Ser	Tyr	Leu	Leu	Arg	
233					210					215					220		
235	Glu	Gly	Glu	Glu	Phe	Ala	Val	Met	Cys	Leu	Ile	Lys	Asp	Val	Ser	Ser	
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238	Ser	Val	Asp	Ser	Met	Trp	Ile	Arg	Glu	Asn	Ser	Gln	Thr	Lys	Ala	Gln	
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241 Val Lys Arg Asn Ser Trp His Gln Gly Asp Phe Asn Phe Leu Arg Gln
242 260 265 270
244 Glu Arg Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
245 275 280 285
247 Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr
248 290 295 300
250 Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Met Asn
251 305 310 315 320
253 Thr Thr Val Phe Val Asn Asp Gly Glu Asp Val Asp Leu Ile Val Glu
254 325 330 335
256 Tyr Glu Ala Tyr Pro Lys Pro Glu His Arg Gln Trp Ile Tyr Met Asn
257 340 345 350
259 Arg Thr Ala Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
260 355 360 365
262 Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
263 370 375 380
265 Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ala Asp Val Asn
266 385 390 395 400
268 Ser Ser Val Thr Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
269 405 410 415
271 Thr His Asp Arg Leu Met Asn Gly Met Leu Gln Cys Val Ala Ala Gly
272 420 425 430
274 Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln
275 435 440 445
277 Arg Cys Ser Val Pro Val Gly Pro Val Asp Val Gln Ile Gln Asn Ser
278 450 455 460
280 Ser Val Ser Pro Phe Gly Lys Leu Val Ile His Ser Ser Ile Asp Tyr
281 465 470 475 480
283 Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Arg Ala Tyr Asn Asp
284 485 490 495
286 Val Gly Lys Ser Ser Ala Phe Phe Asn Phe Ala Phe Lys Glu Gln Ile
287 500 505 510
289 His Ala His Thr Leu Phe Thr Pro Leu Leu Ile Gly Phe Val Ile Ala
290 515 520 525
292 Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr Tyr Lys Tyr Leu
293 530 535 540
295 Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val Glu Glu Ile Asn
296 545 550 555 560
298 Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu Pro Tyr Asp His
299 565 570 575
301 Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys Thr Leu Gly
302 580 585 590
304 Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr Gly Leu Ile
305 595 600 605
307 Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met Leu Lys Pro Ser
308 610 615 620
310 Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu Leu Lys Val Leu
311 625 630 635 640
313 Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu Leu Gly Ala Cys

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320	675	680	685	
322	Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys Asn Leu Leu His			
323	690	695	700	
325	Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu Tyr Met Asp Met			
326	705	710	715	720
328	Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala Asp Lys Arg Arg			
329	725	730	735	
331	Ser Ala Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala Ile			
332	740	745	750	
334	Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser Phe			
335	755	760	765	
337	Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn Cys			
338	770	775	780	
340	Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly Arg			
341	785	790	795	800
343	Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Lys Asn Asp			
344	805	810	815	
346	Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp Met			
347	820	825	830	
349	Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp Val			
350	835	840	845	
352	Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser Ser			
353	850	855	860	
355	Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile Lys			
356	865	870	875	880
358	Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Glu Met Tyr			
359	885	890	895	
361	Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro Thr			
362	900	905	910	
364	Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr			
365	915	920	925	
367	Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro His Arg Glu Asn			
368	930	935	940	
370	Pro Ala Val Asp His Ser Val Arg Ile Asn Ser Val Gly Ser Ser Ala			
371	945	950	955	960
373	Ser Ser Thr Gln Pro Leu Leu Val His Glu Asp Val			
374	965	970		
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378	<211> LENGTH: 8			
379	<212> TYPE: PRT			
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/26/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 38, 41, 3637, 3923
Seq#:13; N Pos. 4, 13 /

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 184

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/823,142A

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L:12 M:283 W: Missing Blank Line separator, <130> field identifier

L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0